

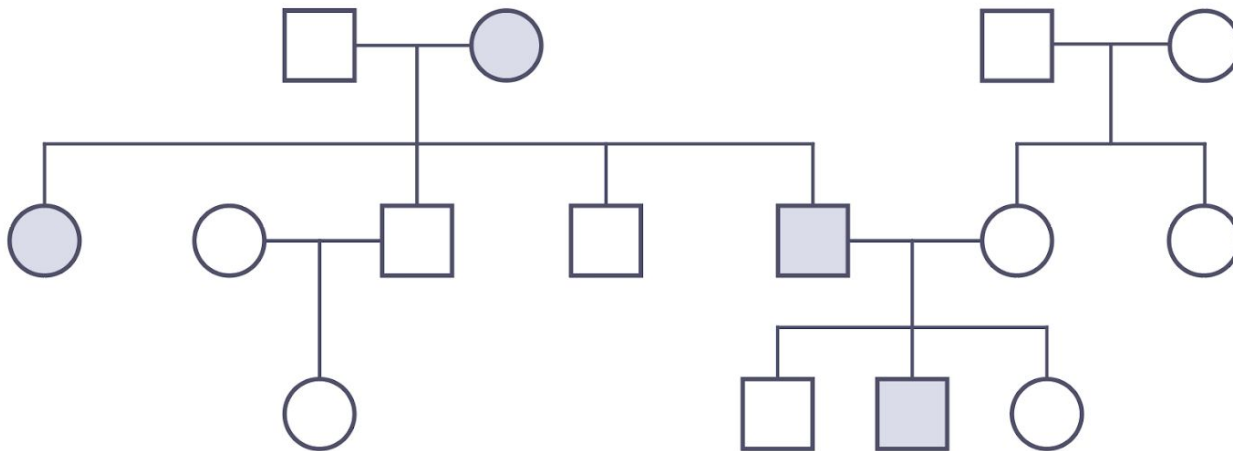


Pedigrees

Genetics Part 4

Pedigree

A family tree that shows the inheritance of a genetic trait or disease through several generations.



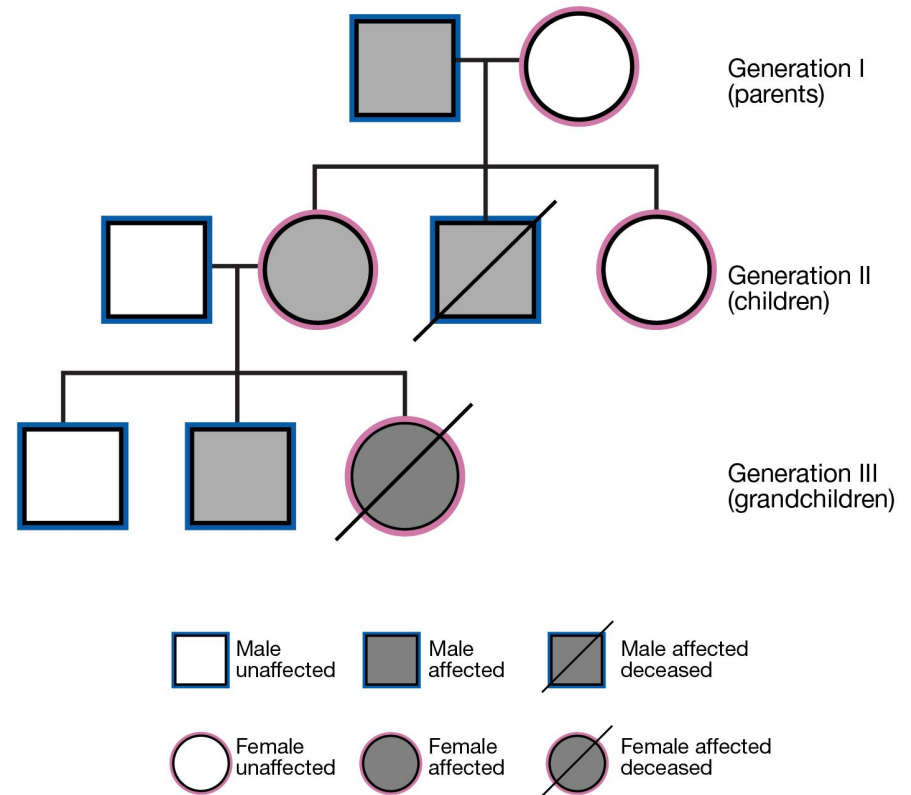
Pedigree

Males = Squares

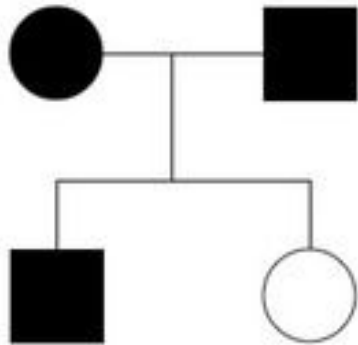
Females = Circles

Trait = Black

No Trait = White



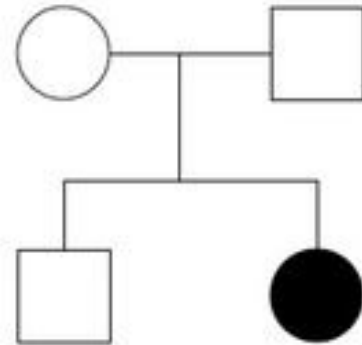
Interpreting a Pedigree



Autosomal Dominant

Cannot be recessive as affected parents could not have an unaffected offspring

Parents MUST be heterozygous

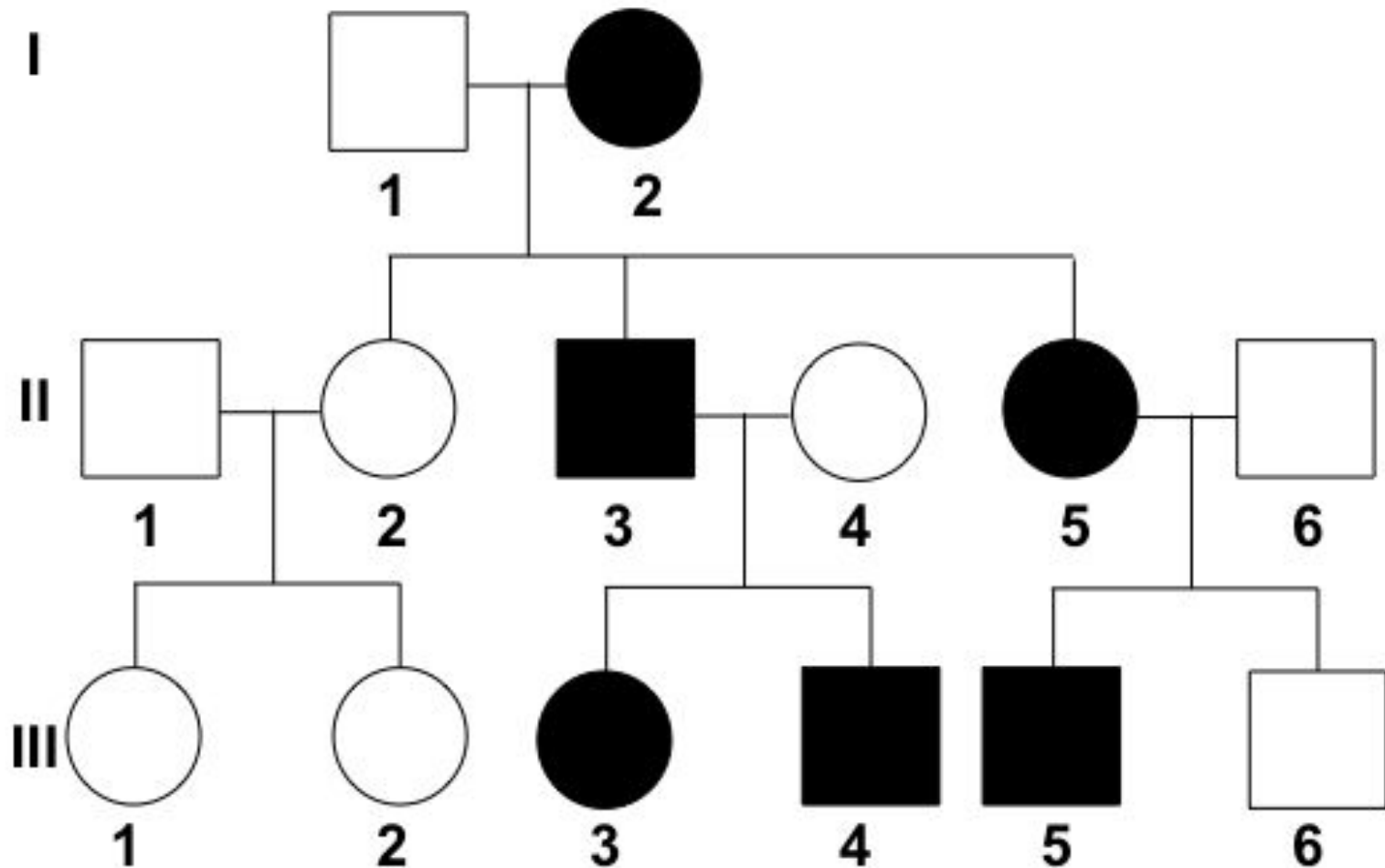


Autosomal Recessive

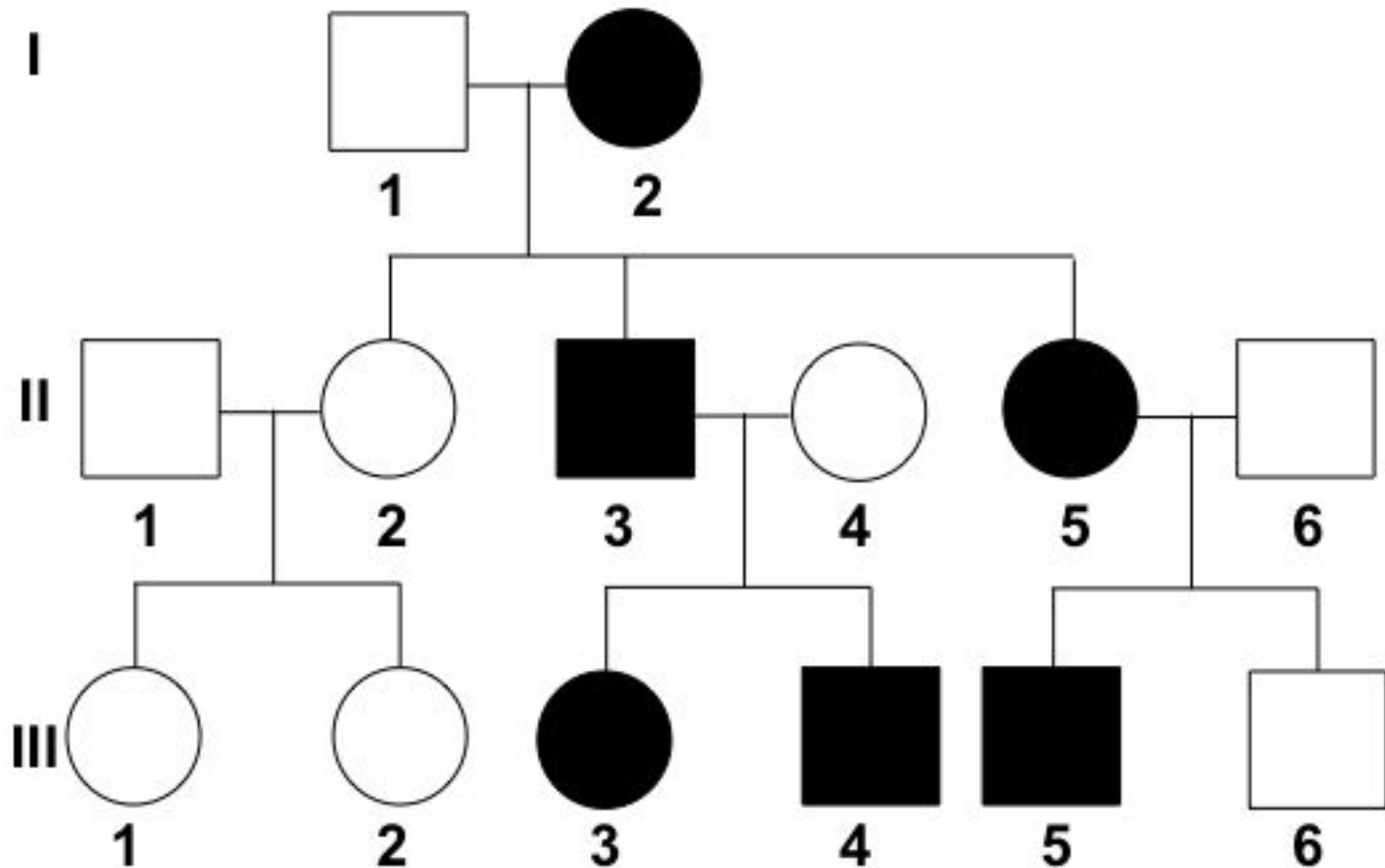
Cannot be dominant as unaffected parents could not have an affected offspring

Parents MUST be heterozygous

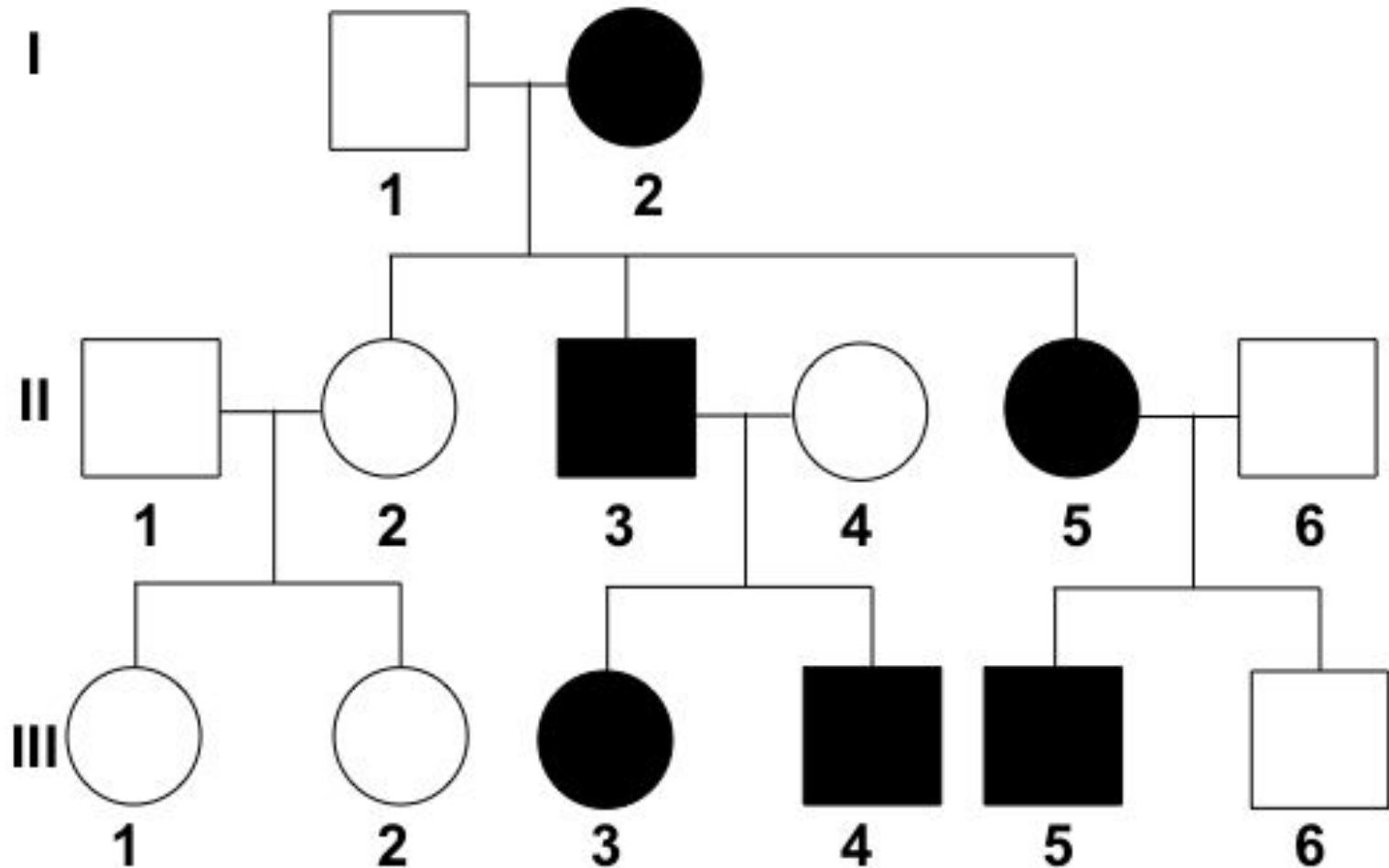
How many kids did I-1 & I-2 have?



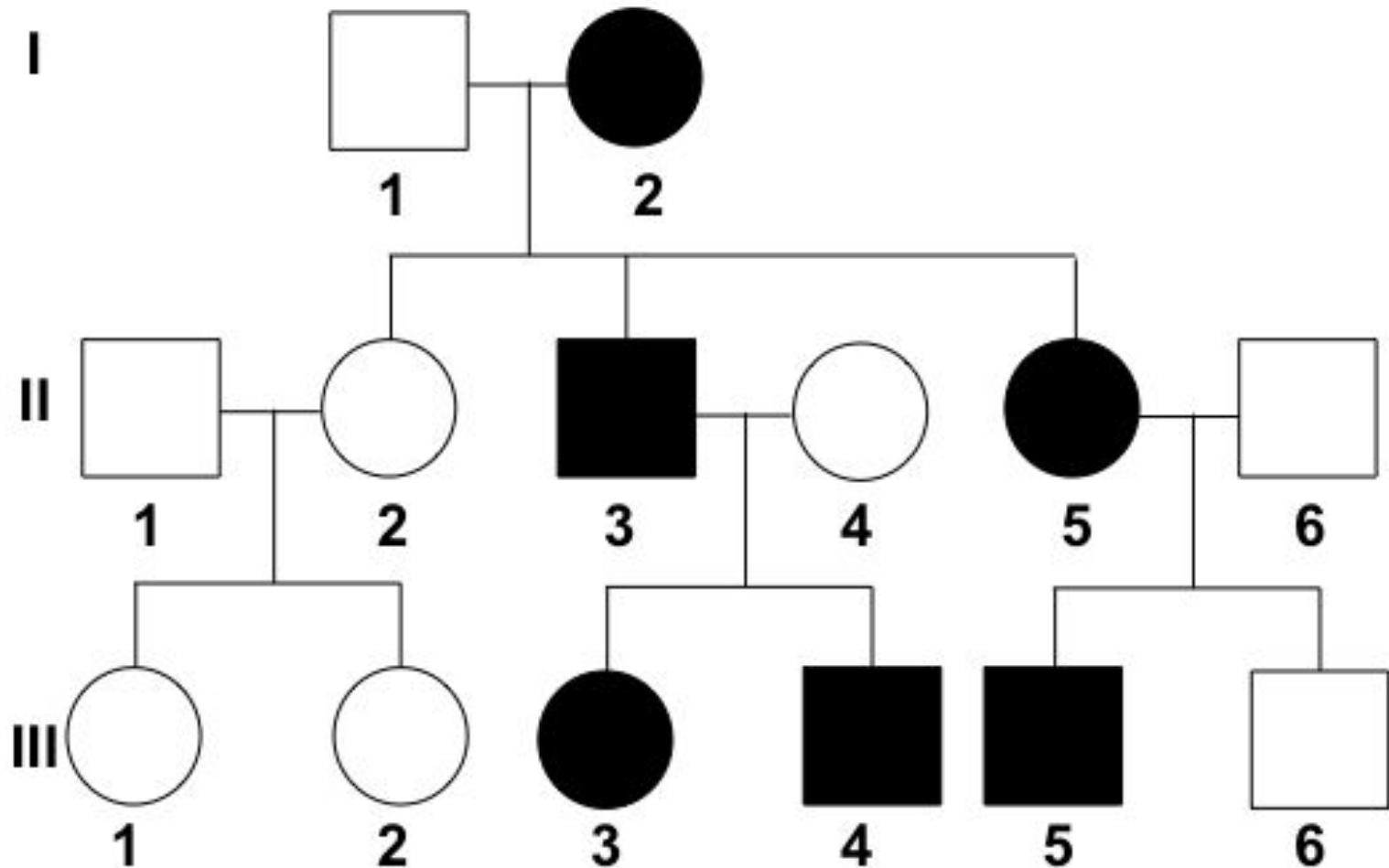
How many daughters did I-1 & I-2 have?



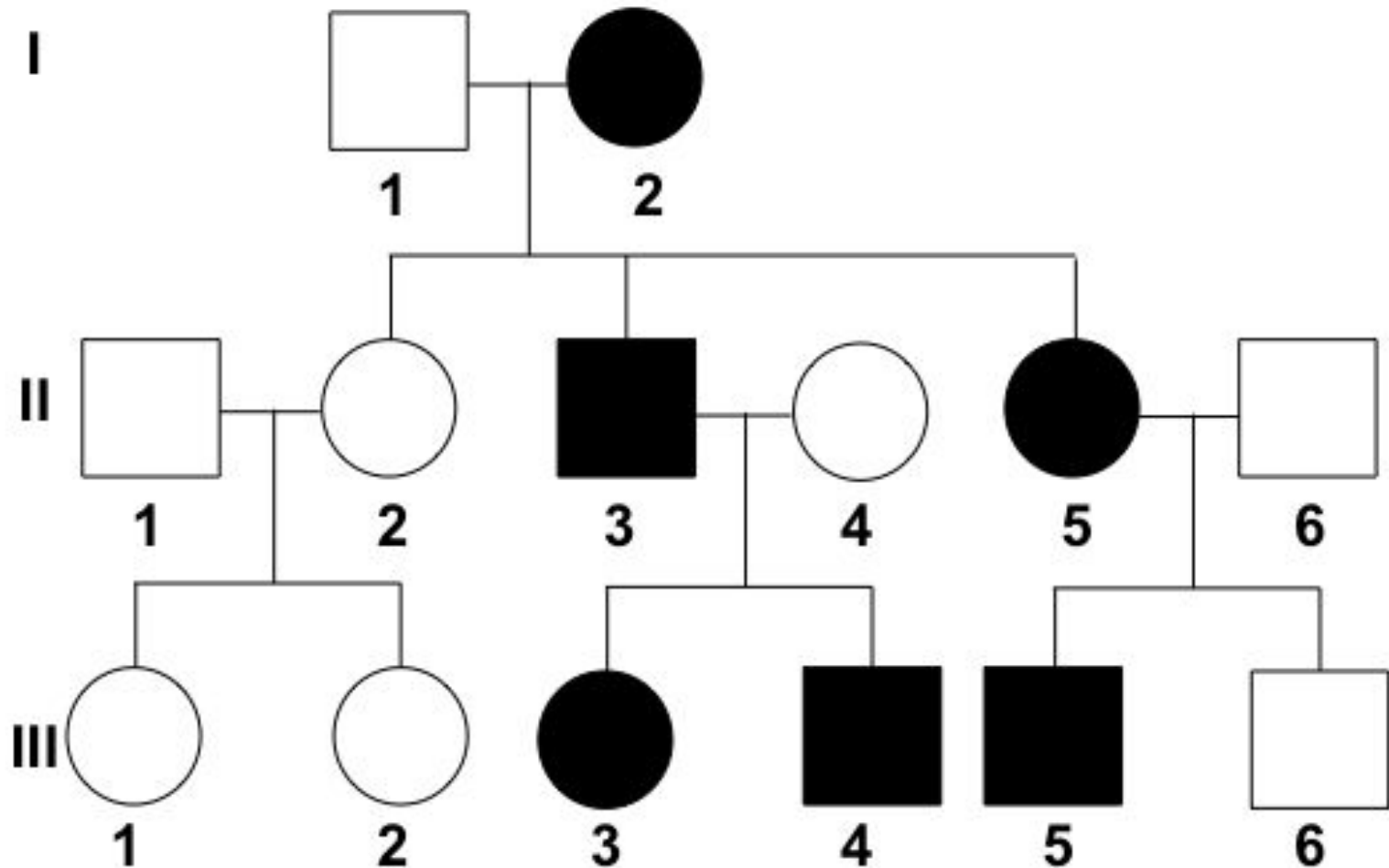
How many people in this family have the genetic trait?



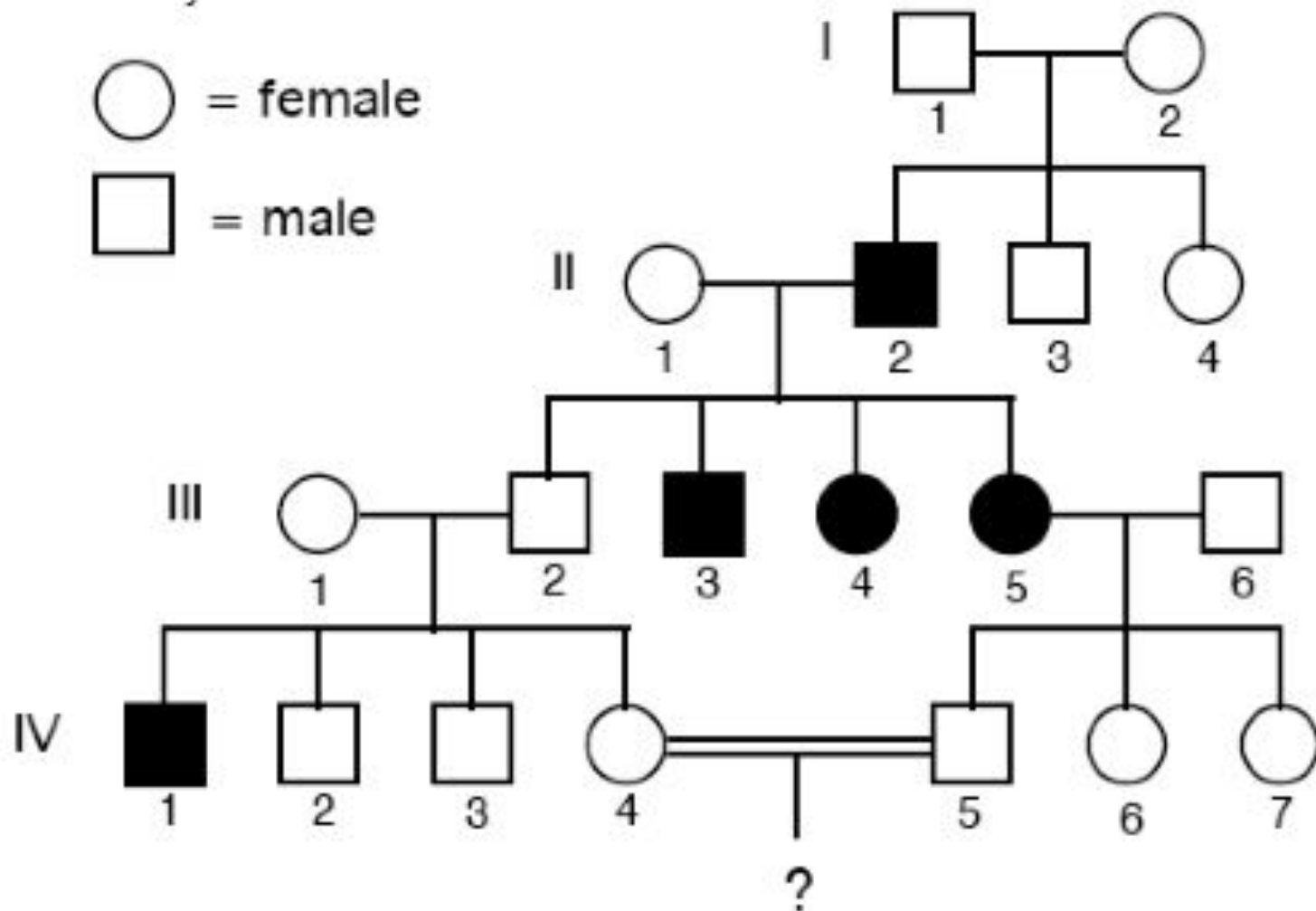
How many males in this family have the genetic trait?



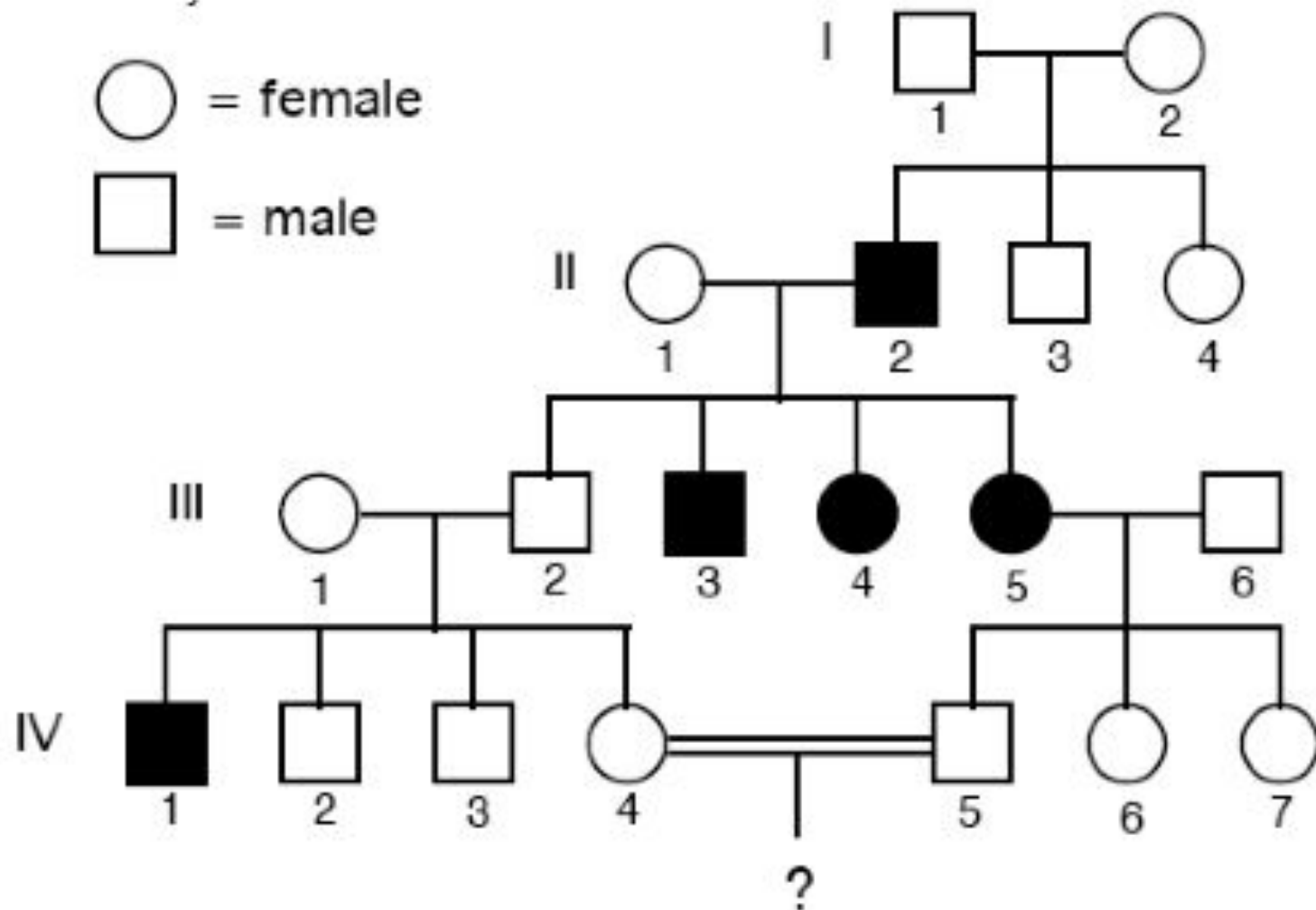
Is this genetic trait dominant or recessive?



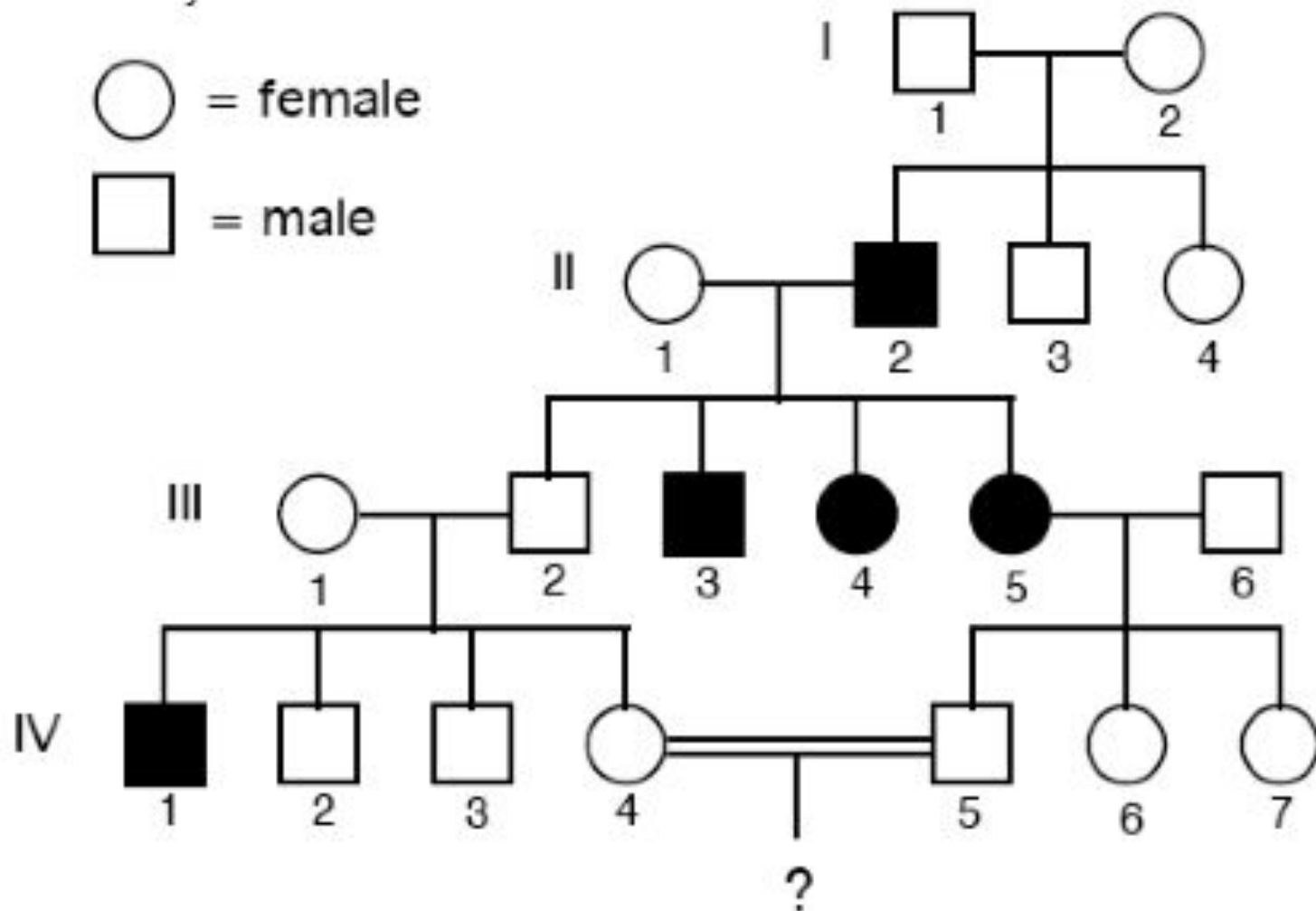
How many children did II-1 and II-2 have?



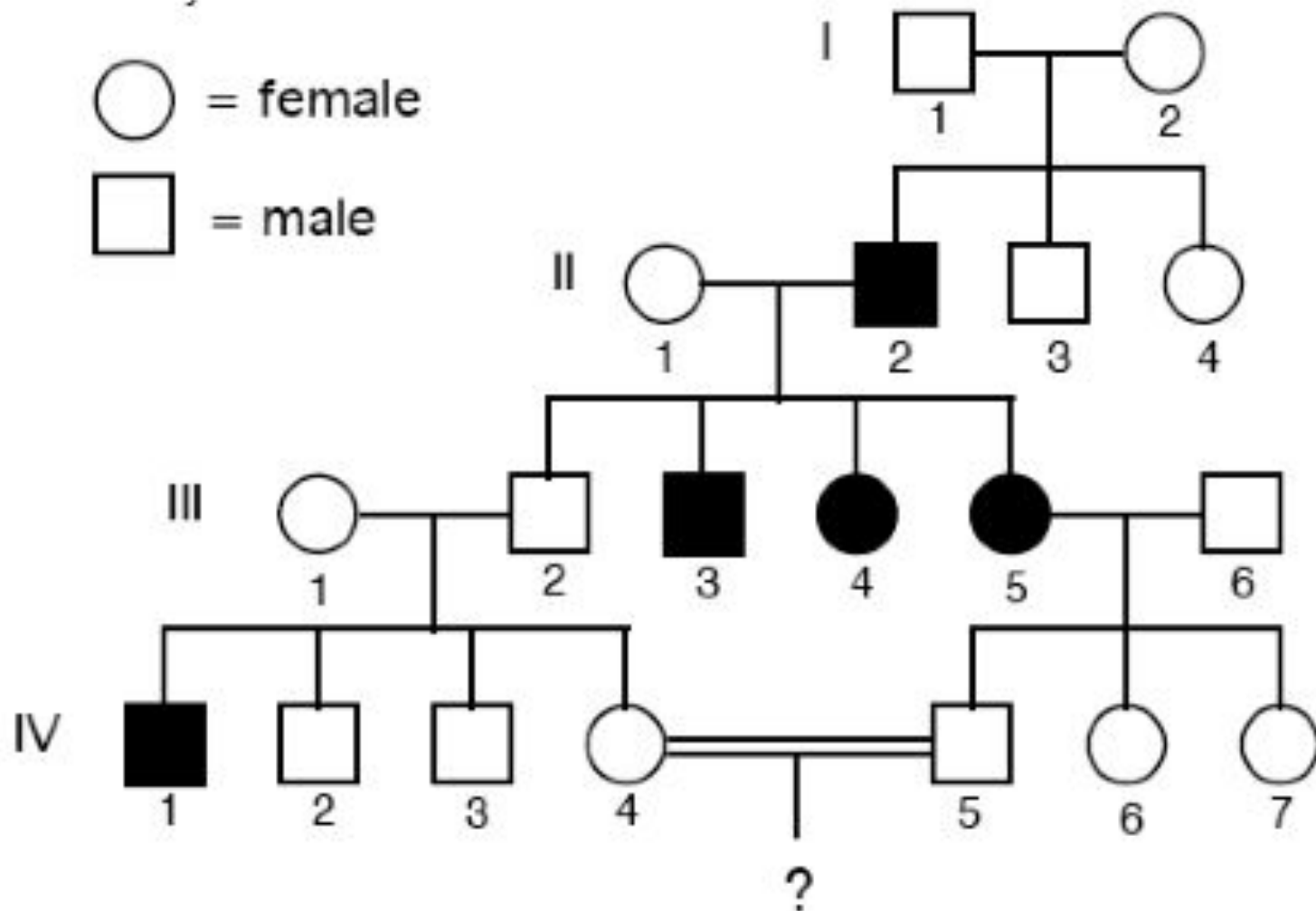
How many females in this family have the genetic trait?



Is this genetic trait dominant or recessive?



Is it possible the child of IV-4 and IV-5 could have this trait?



How are IV-4 and IV-5 related?

